



| Structure of native LH-RH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------------------------|--------|----------|-------|-----|--------|--------------------------|-----|--------|-----|---------------------------------|
| Example 1 | pGlu | His | Trp | Ser | Tyr | Gly | Leu | Arg | Pro | GlyNH ₂ |
| Example 2 | pGlu | His | Trp | Ser | Tyr | SPL(Pro) | Npg | Arg | Pro | NHC ₂ H ₅ |
| Example 3 | pGlu | His | Trp | Ser | Tyr | D-Ala | Npg | Arg | Pro | NHC ₂ H ₅ |
| Example 4 | pGlu | His | Trp | Ser | Tyr | D-Leu | Npg | Arg | Pro | NHC ₂ H ₅ |
| Example 5 | pGlu | His | Trp | Ser | Tyr | D-Phe | Npg | Arg | Pro | NHC ₂ H ₅ |
| Example 6 | pGlu | His | Trp | Ser | Tyr | D-Trp | Npg | Arg | Pro | GlyNH ₂ |
| Leuprorelin | pGlu | His | Trp | Ser | Tyr | D-Ala | Leu | Arg | Pro | NHC ₂ H ₅ |
| Triptorelin | pGlu | His | Trp | Ser | Tyr | D-Leu | Leu | Arg | Pro | NHC ₂ H ₅ |
| Deslorelin | pGlu | His | Trp | Ser | Tyr | D-Trp | Leu | Arg | Pro | GlyNH ₂ |
| Goserelin | pGlu | His | Trp | Ser | Tyr | D-Trp | Leu | Arg | Pro | NHC ₂ H ₅ |
| Buserelin | pGlu | His | Trp | Ser | Tyr | D-Ser(OBu ^t) | Leu | Arg | Pro | azaGlyNH ₂ |
| Antide | AcDNaI | D-pClPhe | D-Pal | Ser | NicLys | D-NicLys | Leu | Arg | Pro | NHC ₂ H ₅ |
| Abarelix | D-Ala | D-pClPhe | D-Ala | Ser | Tyr | D-Asp | Leu | IprLys | Pro | D-AlaNH ₂ |
| cetrorelix | AcDNaI | D-pClPhe | D-Pal | Ser | Tyr | D-Cit | Leu | Arg | Pro | D-AlaNH ₂ |